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meet it in Z, then $PR:PS:PZ^1:PS^2$; hence $PZ^2:PS^2::PE^2:SV^2$, or $PZ^2:PE^2::PS^2:SV^2$; ... PZ:PE::PS:SV, and by composition we have PZ:ZE::PS:PV, ... $PZ^2:ZE^2::PS^2:PV^2$; but the triangle VNP has all its angles given, being similar to the triangle VMS, hence $VP^2 = m \times PN^2$, ... $PZ^2:ZE^2::PS^2:m \times PN^2$, or $PZ^2:ZE^2::PS^2:m \times PS \times PK::PS:m \times PS \times PK::PS:m \times PK \times PK$, but $PZ^2:PS \times PK$. Draw $PS \times PK$, but $PS \times PK$ and meeting $PS \times PK$. Draw $PS \times PK$. Draw $PS \times PK$ and $PS \times PK$ is a hyperbola $PS \times PK$ in a given ratio of $PS \times PK$ is in position, ... the point $PS \times PK$ is fixed and the perpendicular $PS \times PK$ is in position, ... the point $PS \times PK$ is fixed and the circle $PS \times PK$ is given in position, ... the points $PS \times PK$ is given in position, ... the points $PS \times PK$ is given in position.

The synthesis of this problem is not long, and will be easily seen from the analysis.

Note on Problem 443.—Prof. Seitz has called our attention to the fact that problem 443 is identical with problem 183, his solution of which was published at pages 27 and 28 of Vol. V.

As the problem had accidentally been placed with the unpublished problems, after its insertion in Vol. V, the fact of its having been published was not remembered when it was inserted in Vol. X, nor when the method of solution, published at p. 156, was sketched.

Prof. Seitz has also pointed out that the equation $V_4 = \frac{1}{12}mx_1$, at page 156, is not exact, because, when the equation is exact, the edges of the pieces V_4 are straight lines, whereas, in this case, they are arcs of a hyperbola. This objection is valid, and the equation should have been written,

$$V_4 = \int_0^{x_1} \varphi(x) dx,$$

where $\varphi(x)$ is the value of m at the altitude x above the lower base of the frustum. But as this method possesses no advantage over that pursued by Prof. Seitz, the reader is referred to the solution of problem 184 at pp. 27-28.0f Vol. V for a solution of the problem in detail.

Since the above was put in type we have received from Professor J. M. Greenwood, of Kansas City, Mo., the following letter announcing the death of Professor Seitz, which we take the liberty to publish, as a brief tribute to his virtue and ability, by one who knew him personally.

Kansas City, Mo., Oct. 11, 1883.

Dear Sir:—

The brilliant mathematician, Enoch B. Seitz, died at Kirksville, Mo., on the 8th inst., of Typhoid Fever, after a protracted illness of five weeks. He went to the "Normal" on the day the session opened, but was unable to take charge of his class the next day.

His death causes unusual regret among the thousands of students, teachers, and citizens of this state, who admired him not only on account of his transcendent powers as a mathematician, but as a model of excellence in his daily life.

He was about 34, I think, though I speak from memory only.—The rising star set ere it reached the meridian.

J. M. GREENWOOD.

We have never had the pleasure of meeting Mr. Seitz and our earliest knowledge of him dates with the commencement of the Analyst, since which the pages of the Analyst bear witness to his constant and valuable correspondence, from which we have long regarded him as possessed of extraordinary mathematical ability and precision of thought. And though we have been favored with the correspondence of many able mathematicians, we believe that, in acuteness of perception, and in conciseness and elegance of style, Mr. Seitz would rank with the ablest. We had anticipated valuable results from his labors, and believe that, had his life been spared, his industry and ability would have materially assisted in enlarging the boundaries of exact science.

The readers of the ANALYST are indebted to Mr. Seitz not only for the many elegant solutions by him that have been published, but also for the "Index to Contributors of Solutions of Problems", which was furnished by him, voluntarily and unsolicited, and must have been about the last work that he was permitted to do, as it bears date Sept. 5.